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ABSTRACT

A study examined the extent to which various individualized instructional methods were utilized in Navy "A" and "C" courses. During the study, questionnaires were mailed to instructors involved in teaching a random stratified sample of 623 Navy "A" and "C" school courses (a sample that represented 25 percent of the 2,491 such courses taught at the time). The instructors were asked to specify the amount of time that they utilized the following teaching methods: computer-aided instruction, computer-managed instruction, programmed instruction, self-paced instruction, direct student-instructor contact, and instruction involving the use of hands-on material. Based on data collected from the 445 usable questionnaires, the researchers concluded that the personnel involved in teaching the courses under investigation do not always classify the courses' methods of instruction in the same way that they are classified according to the Navy Integrated Training Resources and Administration System (NITRAS). Of the 414 courses in the study sample that were classified by NITRAS as group-paced 50 were reported by the questionnaire respondents as having some self-pacing. This discrepancy in classification is due largely to the NITRAS self-pacing criterion for labeling courses as individualized instruction. To describe training courses more adequately, NITRAS should broaden its definition of individualized instruction. (MN)

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Technical Memorandum 83-7

SURVEY OF THE EXTENT OF INDIVIDUALIZED INSTRUCTION IN NAVY "A" AND "C" SCHOOL COURSES

Gene S. Micheli
Larry H. Ford

Training Analysis and Evaluation Group

September 1983

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A sample of Navy courses is categorized in terms of computer aided instruction, computer managed instruction, and programmed instruction. The hours spent in various types of courses on direct student-instructor contact, with hands-on material, and in programmed instruction are reported. The data show that the "official" classification of method of instruction of courses does not correspond with the way personnel involved with the courses view the courses.

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SECTION I

INTRODUCTION

The confusion surrounding the description and usage of individualized instruction (II) in Navy technical training is of some concern in the Naval Education and Training Command (NAVEDTRACOM). It is difficult to evaluate the effectiveness/efficiency of II since few Navy courses could be classified as "pure" (or strictly) II. They do not satisfy the several criteria which characterize II; namely, release of time constraints, choice of media, and instruction adapted to skill levels and characteristics of the learners. Further complication is added by the perceptions of many Navy personnel that programmed instruction (PI), computer managed instruction (CMI), and computer aided instruction (CAI) are merely forms of "self-pacing." In fact, the latter term is often substituted for II. Actually, self-pacing is only one of several sound instructional elements required for II. Consequently, there is a need to differentiate between conventional instruction (CI) and II in terms of instructional strategy, instructional delivery, and instructional media and to assess the effectiveness/efficiency of CI and II strategies in various kinds of Navy training.

Several TAEG studies have examined various issues subsumed under II. An early study (Zajkowski, Heidt, Corey, New, and Micheli, 1979) assessed II in Navy technical training but was limited to enlisted preparatory and to class "A" schools. Among the study conclusions were the following:

1. Generally, II is as effective as conventional instruction and frequently reduces training time.

2. The use of various aspects of II, in particular CMI, CAI, and PI, is extensive in the military and is increasing in technical training.

3. The Navy is at the forefront of the attempt to increase the efficiency of technical training through the use of II.

The report also recommended actions designed to improve the implementation of II in the Navy. Subsequently, the Chief of Naval Education and Training (CNET) tasked TAEG[1] to undertake three of the actions recommended in that report. These were:

- an analysis of the relative effectiveness/efficiency of II for different kinds of training tasks and ability levels of trainees
- an assessment of the relative cost benefits of II versus CI
- a comprehensive survey of the types and extent of II in use throughout the Navy.

Three TAEG technical reports (Corey, 1981; Hall and Freda, 1982; and Freda, Hall, and Ford, 1982) summarize the outcomes of the first two of

[1]CNET ltr Code N-53 of 11 Feb 1980

these taskings. Two themes emerged from these studies. The first was that individualized instruction is just as effective as conventional instruction for operational jobs. The second was that the individualized curricula appeared to be more efficient than the conventional for the courses examined, and the curricula were more efficiently managed by the computer than by instructors. Another common observation in these reports was that there were various meanings attached to the concept of II, and that II apparently incorporates a variety of instructional practices in Navy training. Based on this finding, the TAEG was tasked[2] to identify and document the range of instructional activities in courses defined as "individualized" by the NAVEDTRACOM. The ensuing report (Evans and Braby, 1983) indicated that II in its pure form rarely occurs in Navy training and that effectiveness in courses is mediated more by the extent to which good instructional practices are used than by which instructional strategy is employed (II vs CI).

This present report continues from the previous studies. It presents a survey of the types and extent of II being used in a representative sample of Navy courses.

PURPOSE

This study categorized a sample of Navy courses in terms of computer aided instruction, computer managed instruction, and programmed instruction, and reported the hours spent in various types of courses on direct student-instructor contact, with hands-on material, and in programmed instruction.

DEFINITIONS

The following definitions, used in this report, are consistent with those promulgated by CNET (CNETINST 1500.12).

Individualized Instruction (II). An instructional strategy in which all learning activities are designed to accommodate individual differences in background, skill level, aptitudes, and cognitive styles. Individualized Instruction is characterized by the following attributes:

- releasing of time constraints
- choice of instructional media
- instruction adjusted to skill levels and learner characteristics; it often employs programmed instruction.

Conventional Instruction (CI). An instructional strategy in which learning activities are directed toward a normative model of the target population characteristics and usually delivered in a group environment. It is characterized by:

- predetermined group pacing
- preselected nonvariant media
- predetermined nonvariant instruction.

These characteristics, once established, are employed with all members of the group.

[2]CNET ltr Code 022 to CNTECHTRA of 5 Apr 1982

Programmed Instruction (PI). An instructional format which presents individualized materials in a sequence of small units each of which requires an immediate response from the trainee and which also provides the trainee with immediate knowledge of results.

Programmed Instruction Text. An instructional delivery system which employs programmed instruction.

Computer Managed Instruction (CMI). An instructional management system in which a computer is employed to prescribe a series of instructional materials for individual trainees. Usually associated with II, it may include the capability for record keeping, testing, counseling, and selecting various media for the delivery of instruction.

Computer Aided Instruction (CAI). An instructional delivery system in which a computer system is used to provide instruction and where there is an ongoing interchange of stimulus and reaction between the computer and trainee. When a CMI capability coexists within the host computer system, the computer system serves both a media and management function.

Instructor Managed Instruction (IMI). An instructional management system in which the instructor prescribes a series of instructional materials for individual trainees. It is usually associated with the delivery of II and may include the capability for record keeping, testing, counseling, and selecting various media for the delivery of instruction.

ORGANIZATION OF THE REPORT

In addition to this introductory section, the report contains three other sections and three appendices. Section II describes the sample selection, the data collection instrument, and the procedure for data collection. Section III presents the results of the study. Section IV contains a discussion of the study findings. Appendix A contains the data collection instrument used for the study. Appendix B is a list of the sample of courses examined in the study and their Navy Integrated Training Resources and Administration System (NITRAS) descriptions. Appendix C contains examples of questionnaire responses for courses examined in the study.

SECTION II

METHOD

SAMPLE SELECTION

A 25 percent random stratified sample (N = 623) was selected from 2,491 "A" and "C" School courses. The sampling unit was the NITRAS Course Data Processing (CDP) number.

The 2,491 A and C courses were stratified using Type of Course by Method of Instruction by DOD Skill Code. For the DOD Skill Code only the first digit of the code was used but officer and enlisted codes were kept distinct. Thus, 17 Skill Codes, 4 Methods of Instruction, and 14 Type of Course categories were identified. All empty categories were discarded. Categories with four or more occurrences were separated from those with three or less. Samples of 25 percent of each category with four or more occurrences were drawn randomly. The number to sample from each category was decided as follows:

- divide the number in the category by 4
- if the result is an integer, randomly select that number of courses from the category; if the number has a decimal, then round up or down to the nearest integer if the decimal is .75 or .25, respectively; if the decimal is .5, then round up half the time and down half the time, again randomly
- take all categories with three or fewer occurrences and combine them into one category; from that category randomly select 25 percent of the total occurrences, applying the rounding rules stated above.

The result was a list of 623 courses that represented the 2,491 A and C courses without sampling bias.

DATA COLLECTION INSTRUMENT

A questionnaire approach was selected in order to collect information on a large number of courses. A draft of the questionnaire was reviewed by each Assistant Chief of Staff (ACOS) and other staff members at Chief of Naval Technical Training (CNTECHTRA) and by instructors and the Curriculum and Instructional Standards Officer at Service School Command, Orlando. Based on inputs from these reviews, the questionnaire was put in final form. The questionnaire sent to each course in the sample is shown in appendix A.

PROCEDURE

The questionnaire was mailed to the address for each Course Data Processing (CDP) number in the sample with the request that an instructor of the course or someone knowledgeable about how the course is conducted

complete the form. The questions asked for the number of hours spent in particular activities or in using particular materials or equipment. Upon completion, the questionnaire was returned to the TAEG for data analysis.

DATA PROCESSING AND ANALYSIS

The raw questionnaire data were entered into a computer file and were processed and analyzed using the statistical software package SPSS (Nie, Hull, Jenkins, Steinbrener, and Bent, 1975; Hull and Nie, 1981). The specific procedures used included FREQUENCIES, CROSSTABS, and BREAKDOWN.

SECTION III

RESULTS

Of the 623 questionnaires mailed out, 499 (80.1 percent) were returned. Some of the returned questionnaires were for discontinued courses or courses that had not started yet, resulting in 445 (71.4 percent) usable questionnaires. The distribution of the types of courses in the final sample is shown in table 1.

TABLE 1. TYPES OF COURSES IN THE SAMPLE

TYPE OF COURSE	SAMPLE	
	NUMBER	PERCENT*
C7 E-5 and above	5	1.1
C5 Enlisted Medical	1	0.2
C3 Enlisted Communications	6	1.3
C2 Officer	20	4.5
C1 Enlisted	342	76.9
	374	84.0
A3 Enlisted Communications	5	1.1
A2 Officer	7	1.6
A1 Enlisted	33	7.4
AP Enlisted Preparatory	21	4.7
AA Apprenticeship	5	1.1
	71	15.9
TOTAL	445	99.9

*The percent column total is 99.9 due to rounding error.

The NITRAS classifies courses as "self-paced," "CMI," "self-paced and CMI," or "group-paced." Table 2 shows how the courses in the sample were classified by NITRAS and how they were described by the questionnaire respondents. NITRAS classified 7 percent (3.4 percent, 0.2 percent, and 3.4 percent, respectively, for SP, CMI or SP and CMI) of the courses as having "some II." (See appendix B for NITRAS descriptions of each course included in the sample.) However, the questionnaire results showed that 18.2 percent of the courses were reported to have some form of individualized instruction (II). That is, 2.6 times more courses were reported as having some form of II than the NITRAS classification of having some II. Also, of the 31 courses that NITRAS does classify as having some II, 8 courses (25.8 percent) were reported by the questionnaire respondents as having no II at all. Of the 414 courses in the present sample classified by NITRAS as

group-paced, 58 (14 percent) were reported by the questionnaire respondents as having some self-pacing. Clearly, the classification of a course by method of instruction in NITRAS does not always agree with the perceptions of individuals who teach the course.

TABLE 2. CROSS TABULATION OF NITRAS AND QUESTIONNAIRE CATEGORIES

QUESTIONNAIRE CATEGORIES	NITRAS CATEGORIES				
	SELF-PACED	CMI	SELF-PACED AND CMI	GROUP PACED	BOTH (SP & GP)
NO II	5	0	3	356	364 (81.8%)
SOME II	10	1	12	58	81 (18.2%)
	15 (3.4%)	1 (0.2%)	15 (3.4%)	414 (93%)	445 (100%)

The mean responses, in terms of time utilized (in hours), to each item in the questionnaire are shown in table 3, broken down by NITRAS-classified method of instruction. (See appendix C for examples of responses to the questionnaire items for courses examined.[3]) The column labeled SP in this table refers to all three types of courses (self-paced, CMI, and both self-paced and CMI) classified by NITRAS as self-paced. The column labeled GP refers to NITRAS-classified group-paced courses, and the column labeled BOTH reports the means for all courses in the sample. Clearly, courses classified as self-paced report more hours of self-paced instruction, and those classified as group-paced report more hours of group-paced instruction. However, neither NITRAS classification necessarily represents a pure type; self-paced courses do report some group-paced instruction, and vice versa.

Self-paced courses use computer-managed instruction, computer-assisted instruction and programmed instruction texts to a greater extent than group-paced courses. Also, these instructional media are used more in theory portions of self-paced courses than in laboratory portions of self-paced courses. In general, the use of instructional media is greater in SP courses than in GP courses.

[3]Four examples from 445 usable questionnaires are shown in appendix C. A summary of questionnaire responses for each course examined in the study is available from TAEG upon request.

TABLE 3. MEANS OF RESPONSES TO QUESTIONNAIRE

	THEORY PORTION OF COURSE						LAB PORTION OF COURSE						TOTAL COURSE		
	Self-Paced Instruction			Group Instruction			Self-Paced Instruction			Group Instruction					
	SP	GP	BOTH	SP	GP	BOTH	SP	GP	BOTH	SP	GP	BOTH	SP	GP	BOTH
	(In Mean Hours)														
1. How many hours are there in each portion of the course?	67	3	8	39	139	132	68	5	9	27	117	111	201	264	260
2. How many hours are spent on self-paced or individualized instruction managed by an instructor?	45	2	5	2	9	8	55	3	7	20	15	15	123	29	35
3. How many hours are spent in computer managed instruction (CMI)?	32	4	6	0	0	0	13	0.2	1	13	0.2	1	45	4	7
4. How many hours are spent in computer assisted instruction (CAI)?	6	0	0.4	0	0	0	3	0.3	0.5	0	0.3	0.3	10	0.6	1
5. How many hours are spent with programmed instruction texts?	57	0.5	4	2	2	2	26	0.1	2	0.8	1	1	86	4	10
6. How many hours are there of direct individual student contact with an instructor?	33	1	3	19	62	59	28	3	5	9	55	52	90	121	119

TABLE 3. MEANS OF RESPONSES TO QUESTIONNAIRE (continued)

	THEORY PORTION OF COURSE						LAB PORTION OF COURSE						TOTAL COURSE		
	Self-Paced Instruction			Group Instruction			Self-Paced Instruction			Group Instruction					
	SP	GP	BOTH	SP	GP	BOTH	SP	GP	BOTH	SP	GP	BOTH	SP	GP	BOTH
	(In Mean Hours)														
7. How many hours are spent using instructional media such as programmed texts, workbooks, audiovisual equipment, or computer assisted instruction?	57	1	5	6	43	40	47	2	5	18	14	14	127	59	64
8. How many hours are spent using hands-on material such as lab equipment or simulators?	10	0	0.7	1	6	7	77	5	10	31	111	105	120	122	121

Group-paced courses report more hours of direct individual student contact with an instructor in both the theory and laboratory portions of a course. Also, the lab portions of group-paced courses show more hours using hands-on equipment than do the lab portions of self-paced courses. The use of hands-on equipment is concentrated in lab portions for both types of instruction.

The percent of time spent on various instructional activities is shown in table 4. Courses designated SP reported, on the average, that 63 percent of the theory portion of the course was self-paced. The lab portions of SP courses were 72 percent self-paced and 28 percent group-paced. The percent of time spent on other activities can be determined by inspection of the table. Generally, courses designated GP reported very low percentages of self-pacing and computer managed instruction. Both types of courses report about the same percent of time spent on direct individual student contact with an instructor. SP courses report a much higher percentage of time spent using various instructional media.

The percent of total class time spent using various instructional media broken down by method of instruction is shown in table 5. These percentages are only for those courses that reported some time spent using a particular method of instruction in a given part of the course (e.g., self-paced lab). As might be expected, GP courses show a low rate of usage of all these instructional media except for hands-on equipment in group-paced labs. CAI is used to some extent but only in those courses that are classified as both CMI and self-paced. Programmed instruction texts are used in all three types of self-paced instruction. The use of hands-on equipment is fairly widespread in the laboratory portions of all types of instruction.

TABLE 4. PERCENT OF TIME SPENT ON VARIOUS ACTIVITIES IN LAB AND THEORY PORTIONS OF CLASS

QUESTIONNAIRE CLASS ACTIVITIES*	NITRAS METHOD OF INSTRUCTION					
	SP			GP		
	THEORY	LAB	COMBINED	THEORY	LAB	COMBINED
Self-Paced Instruction	63	72	67	2	4	3
Group-Paced Instruction	37	28	33	98	96	97
Self-Paced Instruction Managed by an Instructor	44	79	61	8	15	11
CMI	30	27	22	3	.3	2
Hours of Direct Individual Student Contact With Instructor	49	39	44	44	48	46
Instructional Media	59	68	63	31	13	23

*These are from items in the questionnaire (appendix A)

TABLE 5. PERCENT OF TIME USING VARIOUS MEDIA BY METHOD OF INSTRUCTION

NITRAS CATEGORIES	INSTRUCTIONAL MEDIA											
	CAI				PI				HANDS-ON			
	SP THEORY	GP THEORY	SP LAB	GP LAB	SP THEORY	GP THEORY	SP LAB	GP LAB	SP THEORY	GP THEORY	SP LAB	GP LAB
Self-paced	0	0	0	0	32	0	18	1	7	0	38	35
CMI	0	0	0	0	100	0	0	0	8	0	100	0
SP & CMI	14	0	14	0	75	0	32	0	12	7	70	13
Group-Paced	0	0	0.2	1	3	3	0.5	1	0	4	4	83

SECTION IV

CONCLUSIONS

The classification of a course as "individualized instruction" is often "in the eyes of the beholder." The data clearly show that the perceptions of persons responding to the questionnaire differ from the NITRAS classification of the courses.

There is, however, internal consistency in the NITRAS. According to our questionnaire, NITRAS-classified SP courses have more self-paced instruction, while NITRAS-classified GP courses have more group-paced instruction. This was true for both theory and lab portions of the courses.

While the NITRAS classifications of method of instruction are generally accurate, they do not necessarily represent pure types. Courses designated as group-paced are primarily group-paced but some may have significant portions of self-paced instruction. Conversely, courses designated as self-paced are mostly self-paced, but are by no means entirely self-paced. In general, the NITRAS classifications represent only the predominant method and do not exclude other methods of instruction. However, in some cases the NITRAS classification is completely at odds with the reported method of instruction.

Many courses labeled by NITRAS as SP, CMI, a combination of SP and CMI, or GP actually were "mixed"; i.e., both SP and GP. This is probably due to "a pragmatic philosophy within these courses of using instructional practices which match learning tasks and that a single instructional strategy will probably not be suitable for all tasks within a given course" (Evans and Braby, 1983, p. 32).

According to the definition of II presented earlier, II is characterized by (1) release of time constraints, (2) choice of instructional media, and (3) instruction adjusted to skill levels and learner characteristics. However, the study results suggest (as well as actual practice in the NAVEDTRACOM) that the NITRAS categories of SP, CMI, and a combination of SP and CMI depend mainly on self-pacing as the distinguishing characteristic of II.

Some differences exist in instructional techniques between group and self-paced instruction that may not be due entirely to pacing. For example, group-paced courses show more direct individual student-instructor contact while self-paced courses show more use of various instructional media. Differences in instructional technique that are not tied to pacing could confuse attempts to determine the effectiveness of one method of instruction compared to another.

In summary, the present study shows that the NAVEDTRACOM classification of courses (by NITRAS) does not correspond with the way personnel involved with the courses view the courses. This is in large measure due to the fact that the complexity of the courses cannot be adequately described in the simple "pure" terms of the NITRAS. Some courses are "mixed"; that is, have

some elements of self-pacing and group-pacing. In addition, the NITRAS categorization of II depends mainly on the feature of self-pacing. To more adequately describe training courses, it is recommended that the complete definition of II (not merely release of time constraints) be applied.

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APPENDIX A

DATA COLLECTION INSTRUMENT

CDP_____

Name of Course_____

Name of Person Providing Information_____

Rating/Rate/Rank_____

Title_____

AV Phone Number_____

Please fill in the following blank spaces with the applicable number of hours.

	THEORY PORTION OF COURSE		LAB PORTION OF COURSE		TOTAL
	Self-Paced Instruction	Group Instruction	Self-Paced Instruction	Group Instruction	COURSE
1. How many hours are there in each portion of the course?	___	___	___	___	___
2. How many hours are spent on self-paced or individualized instruction managed by an instructor?	___	___	___	___	___
3. How many hours are spent in computer managed instruction (CMI)?	___	___	___	___	___
4. How many hours are spent in computer assisted instruction (CAI)?	___	___	___	___	___
5. How many hours are spent with programmed instruction texts?	___	___	___	___	___
6. How many hours are there of direct individual student contact with an instructor?	___	___	___	___	___

	THEORY PORTION OF COURSE		LAB PORTION OF COURSE		TOTAL
	Self-Paced Instruction	Group Instruction	Self-Paced Instruction	Group Instruction	COURSE
7. How many hours are spent using instructional media such as programmed texts, workbooks, audiovisual equipment, or computer assisted instruction?	___	___	___	___	___
8. How many hours are spent using hands-on material such as lab equipment or simulators?	___	___	___	___	___

APPENDIX B

LIST OF COURSES EXAMINED AND THEIR NITRAS DESCRIPTIONS

COURSE CAMPUS LISTING

START DTC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
0580A	G115	A1	L	0	GMM A
G31-4	900J	A1	L	1	SCAT MOD 1
00750	G34G	A1	L	1	SCAT MOD 4
00750	G344	A1	L	1	SCAT MOD G
0580A	G03X	A1	L	1	CTA-FORCIGN
00750	G343	A1	L	1	SCAT MODS 3-G
G3082	G02C	A1	L	1	EW-A 3M/TEST
G3082	G04A	A1	L	1	CTSU-PMT
0580A	G420	A1	L	1	CTA ACT COMM
0580A	G425	A1	L	1	CTA-COMM FN
0580A	G435	A1	L	1	CT COM EQUIP FUN
0580A	G428	A1	L	1	CTA-AET-RADAR
0580A	G437	A1	L	1	CTA-RADAR-CTSS
0580A	G437	A1	L	1	CT RAD EQUIP FUN
0580A	G376	A1	L	1	FTG-A2
G5031	G093	A1	L	1	TM BASIC TECH
42851	G015	A1	L	1	SURF ST CLASS A
42851	G118	A1	L	1	SGG23 PAIR OPDAS
42851	G401	A1	L	1	GGG2 DAS OPR
42851	G00N	A1	L	1	SURF STA FORCIGN
0581A	G381	A1	B	2	RM A SHORE
42087	G540	A1	L	2	OS-A
G5971	G487	A1	L	4	EA A
G2G79	G112	A1	P	4	IFF A-1
0581A	G167	A1	L	5	DP A
30157	G553	A1	P	5	RP A
0581A	G073	A1	L	G	ICA
0580A	G489	A1	P	G	BT CL A GG2 PSI
0580A	8504	A1	L	G	GS A MECHANICAL
0580A	G04G	A1	P	G	IMA
G5971	G28G	A1	L	7	DU A
G5971	G2X0	A1	L	7	UT A
G5971	G2XX	A1	L	7	ED A
0581A	G125	A1	L	8	MS A
G3093	G246	A1	L	1	AFTA AX A1
G3093	G240	A1	B	1	AVA AG A1
G3093	G521	A1	P	1	TD A1
35970	G472	A1	P	4	AG A1
G3093	G501	A1	B	G	AD A1
G3115	G578	A1	L	G	H2 AD ENTRY LEVE
G3115	G03T	A1	L	G	EAG AD ENTRY LEV
G3115	G571	A1	L	G	S3 AD ENTRY LEVE
G3115	G57G	A1	L	G	H3 AD ENTRY LEVE
G3093	G517	A1	L	G	AMH A1
G3093	G459	A1	L	G	ASM (A1) MERGED
G3093	G506	A1	L	G	AD A1
G2G03	G041	A1	L	G	MN A
0581A	G5G5	A1	L	2	SNEP RM A SCHOOL
0581A	G5GG	A1	L	5	SNEP SK SHORE
31945	4094	A2	L	13	NAVAL INTEL OFF

COURSE SAMPLE LISTING

STAFF JTC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
62661	6011	A2	L	14	COMM OFF FORCIGN
0617A	6439	A2	L	14	ADVANCED NUC PWR
0610A	0220	A2	L	14	SH SALV DIV OFF
62740	0257	A2	L	15	MIL JUST/LAWYER
62741	0230	A2	L	18	BQC - CORE
62741	6407	A2	L	18	BQC ASST END USE
63082	9795	A2	L	12	EAG PIPREP
63082	9928	A2	L	12	EAG MARINE EWO
63093	602N	A2	L	14	AMO A2 MOD
63082	6161	A3	P	1	CTM A
63082	6302	A3	P	2	CTT A PREP
30921	6321	A3	L	2	CTI A2 RUSSIAN
30921	6329	A3	L	2	CTI A2 COMMON BL
30921	6122	A3	L	2	CTI A2 HEBREW
63082	601F	A3	L	2	CTO A PHASE II
42086	603L	AA	L	7	AA TRAINING STUD
42084	6392	AA	L	7	AA TRAINING
42085	603R	AA	L	7	SA TRAINING STUD
42085	603S	AA	L	7	FA TRAINING STUD
42084	6398	AA	L	7	FA TRAINING
0580A	5242	AP	L	0	E E/H
00750	6546	AP	L	0	SS ENL BAS TM
31904	6481	AP	L	0	SUB NUCENL INDOC
0581A	601P	AP	B	1	BE/E-AT
65931	601T	AP	B	1	BE/E-AQ
0580A	601X	AP	B	1	BE/E-AX
0581A	602T	AP	B	1	BE/E-AC
65931	602K	AP	B	1	BE/E-ASE
63093	6230	AP	B	1	BE/E-AT
63093	6234	AP	B	1	BE/E - AV NONNAV
0580A	6248	AP	B	1	BE/E FTG
0580A	6256	AP	B	1	BE/E ET NF
0581A	6269	AP	C	1	BE/E-DS
0581A	6273	AP	B	1	BE/E-EM
0581A	6277	AP	B	1	BE/E STS
65931	6306	AP	B	1	BE/E-EW
65931	6310	AP	B	1	BE/E-FTG
65931	6314	AP	B	1	BE/E-GMT ASROC
0581A	6352	AP	B	1	BE/E-RM(SS) CY9
0581A	6360	AP	B	1	BE/E-EW CTM
0581A	6365	AP	B	1	BE/E-NON A SCHL
0580A	6369	AP	B	1	BE/E-GMT ASROC
65931	6403	AP	B	1	BE/E ET AET
65931	6407	AP	B	1	BE/E-ET RAD-AET
0581A	6411	AP	B	1	BE/E-ET RAD-4YO
0580A	6415	AP	B	1	BE/E ET OTH
0581A	6446	AP	B	1	BE/E-ET (SU) EW
65931	6543	AP	B	1	BE/E-GSM
65931	6550	AP	B	1	BE/E-TM ADVANCE
0581A	6561	AP	L	1	JOBS ELECT

COURSE SAMPLE LISTING

STAFF UIC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
0581A	G563	AP	L	5	JOBS AD CLERICAL
0580A	G262	AP	B	G	PROP ENG BAS MM
0581A	G04R	AP	L	G	JOBS GAS TUR ENG
0763A	G01L	AP	C	9	ART RTC GL
63093	G213	AP	C	0	AFUN AMH
63093	G217	AP	B	0	AFUN ASM
63093	G221	AP	B	0	AFUN AX
63093	G226	AP	B	0	AFUN AO
63094	G281	AP	P	9	AVFUN-ABH
0581A	G470	AP	L	0	SEAMAN C/C
0580A	G01G	AP	L	4	PE SCH INDOC
63093	G297	AP	P	4	NSI MP
0581A	G4G4	AP	L	9	SALDI FST TWO
0580A	3405	C1	L	0	INST BASIC
G8437	8499	C1	L	0	INST BASIC
0580A	3720	C1	L	0	IND INST TECH
0753A	4062	C1	L	0	RECRUIT CO CDR
0581A	26GP	C1	L	1	2M REPAIR PROGRA
G1797	3244	C1	L	1	AN/SRC-20/21
G1797	3453	C1	L	1	AN/UCC-1 MAINT
G1797	3052	C1	L	1	AN/URT-23 MAINT
00750	3191	C1	L	1	COMM EQP CMB MA
G3362	533X	C1	L	1	WRR-7 CMB MA
0581A	544U	C1	L	1	CUDIXS MAINT
0581A	4114	C1	L	1	AN/SYQ-7V2 MAINT
G3154	8080	C1	L	1	WRT-4 CMB MA
G3290	4409	C1	L	1	LHA MM&TG MAINT
G3154	026D	C1	L	1	SUB DIG COMM EQ
G3154	8653	C1	L	1	RCVR CMB MA
G3154	8655	C1	L	1	ANT/COUP CMB MA
G3290	4202	C1	L	1	RF MAINT 1427
G8437	038S	C1	L	1	TRI ECS O/M LVL2
G1797	8755	C1	L	1	AN/USC-34 MAINT
G8437	038U	C1	L	1	TRI ECS RPL LVL1
G8437	038Y	C1	L	1	TRI ECS SUPP DM
G8437	039C	C1	L	1	TRI ECS CMT INTM
G8437	039G	C1	L	1	TRI ECS ANT SS M
0581A	3507	C1	L	1	AN/URN-20 MAINT
G1797	0295	C1	L	1	AN/APX-72 MAINT
G3154	341U	C1	L	1	BRD-7 CMB MA
G3154	27G2	C1	L	1	TYPE 18 CMB MA
G3154	017T	C1	L	1	BPS-15 CMB MA
G3089	01GC	C1	L	1	SLQ-32 TACOPS
G3089	017A	C1	L	1	SLQ-17 EQUIP OPS
G3089	015B	C1	L	1	WLR-1 PMS
G3089	01GF	C1	L	1	SLQ-32 ECM
G3089	412K	C1	L	1	AN/SLQ-22V MAINT
G3089	41CM	C1	L	1	ULQ-6C MAINT
G1797	425G	C1	L	1	AN/URN-25 MAINT
G3089	020A	C1	L	1	TACI/OUTR:UYK 20

COURSE SAMPLE LISTING

START UIC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
00750	023U	C1	L	1	BLD-1 IDFS CMBMA
35412	406W	C1	L	1	AN/TSC-54 MAI
G4G19	472X	C1	L	1	TER 550 MOD8 DIF
G1797	7827	C1	L	1	RRSM
G4G19	4809	C1	L	1	SPG-51C/DIG
0581A	340G	C1	L	1	AN/SPS-29E
G1797	3508	C1	L	1	AN/SPS-55 MAINT
G3290	4398	C1	L	1	SPG-550 MOD 8
0581A	408G	C1	L	1	AN/SPS-49 MAINT
0581A	4581	C1	L	1	AN/SPS 65 MAINT
G3290	8642	C1	L	1	3DRDRMTSPS52A
39029	035D	C1	L	1	AN/SPY-1A RDR
G1G90	027E	C1	L	1	OTO 76MM MK 75
42087	861G	C1	L	1	GMT 5/54 42-9/10
G3154	4777	C1	L	1	FCS 112/2 MAINT
0580A	4610	C1	L	1	COMP MK 47 MOD 8
42087	2967	C1	L	1	FCS MK92 MAINT
0580A	3017	C1	L	1	ASROC LAUN 1G
G3290	543A	C1	L	1	GMLS MK 29 MOD 0
G3290	1381	C1	L	1	BAS PT DET MSL
G9931	3657	C1	L	1	SUBROC MK 28 IM
G3290	472Y	C1	L	1	TER MK 7G / 8
G3290	348T	C1	L	1	TARMK74 4/5/8FCS
G4G19	4G3U	C1	L	1	FT 88
G4G19	463Y	C1	L	1	POL ILT
G3154	328T	C1	L	1	FTTCS 148-0 TIED
00750	5G55	C1	L	1	FCS83-1 PLATFORM
00750	5GG0	C1	L	1	FCS 83-1 DCC M/I
00750	5G58	C1	L	1	FCS83-1 MULTI EQ
G4G19	409K	C1	L	1	FT8ST
G4G19	409H	C1	L	1	MTTRI
G3290	469R	C1	L	1	CGN38 CSMMC PH 2
G3290	469G	C1	L	1	CSMMC LHA-1 PH2
G8437	409P	C1	L	1	TRIDENT FTB REPL
G8437	411N	C1	L	1	MTRC 7/4 AD THRY
G8437	411R	C1	L	1	LCG 13/0 GROOMTN
G3154	4310	C1	L	1	MT 3317 CONVTRNG
G3290	4584	C1	L	1	MK-23 TAS
G4G19	018W	C1	L	1	FT POL TRIBK PRE
G9931	3663	C1	L	1	TORP MK 14 IM
G9931	3671	C1	L	1	TORP MK 48 IM
G9931	038M	C1	L	1	TORP MK46 MOD5IM
G2G03	3574	C1	L	1	SQQ 14 MAINT
00750	5163	C1	L	1	SSSA
42891	345J	C1	L	1	SQS-26AXR MAINT
42851	5039	C1	L	1	UWFCG MK 111 MAI
42851	7782	C1	L	1	SQS35/SQA13 MAI
42851	304X	C1	L	1	SQQ23 PAIR MAINT
G3401	4387	C1	L	1	SONAR SQR15 OPTR
42851	4489	C1	L	1	BQS15 CMB MA

COURSE NAME LISTING

START UIC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
G4619	4053	C1	L	1	OSP ST
G8437	040H	C1	L	1	BGGG O/M/C LEV-2
G8437	040N	C1	L	1	BGGG INTER O/M 1
G8437	040S	C1	L	1	BGGG GRP A HFPE
00750	325Y	C1	L	1	FC 113 C/E CM
42851	4487	C1	L	1	BLR14 CMB MA
00750	2805	C1	L	1	BGR21 CMB MA
00750	403U	C1	L	1	MK 81 ANAL MAINT
42851	4537	C1	L	1	BGGS/SA BAS MA
42851	4241	C1	L	1	WGC-2/2A OPR/MAI
G3401	8364	C1	L	1	SOSUS ADP MAINT
G8437	040Y	C1	L	1	TRI DWS LEVEL 3
G3290	1155	C1	L	1	TERMINAL MAINT
G3290	8360	C1	L	1	BASIC UYA-4V
G3290	139R	C1	L	1	RD-293 MAINT
G3290	1414	C1	L	1	RD-281 MAINT
G3290	3694	C1	L	1	TAR CMPTR 152-1
G3290	4897	C1	L	1	UYA5/6 MAINT
G3290	343H	C1	L	1	UYK7 SSN688 PIPE
G3290	4399	C1	L	1	U-1700 MAINT
G3290	440R	C1	L	1	LHA ITAWDS MAINT
G3290	401W	C1	L	1	UYK7 FFG7 P PE
G3290	401X	C1	L	1	UYA-4 DISPLAY
41672	41GT	C1	L	1	OU-83
41672	01GP	C1	L	1	UYH-2 DMS
G8437	041E	C1	L	1	TRI CCS LEVEL 3
G8437	041K	C1	L	1	OJ 172 ADV MANIT
G8437	041P	C1	L	1	OJ-328 SID MAINT
G8437	041T	C1	L	1	OJ172 MAINT INTR
G8437	041X	C1	L	1	MSDC TRI ADV M
G4619	0332	C1	L	1	SYR 1 MAINT TRNG
39069	0347	C1	L	1	AEGIS COMP FUND
G3290	342R	C1	L	1	CRYP KWT-37 MAI
57063	5116	C1	L	1	TTY 28 ASR MAINT
G3290	3419	C1	L	1	STEAMVALVE MAI
35412	4725	C1	L	1	CRYP KW-26 MAINT
35023	407D	C1	L	1	CRYP KY-2 MAI
G3154	5061	C1	L	1	UGC-20R/2S CMB M
G3290	470N	C1	L	1	CRYP KG40 TAM
35023	406R	C1	L	1	CRYP KW-7 MAI
35412	417W	C1	L	1	CRYP KY-28 MAINT
00750	3463	C1	L	1	NAVTEC TP1 637CL
G4619	7787	C1	L	1	AIDS
G4619	4727	C1	L	1	NTM C
G4619	4052	C1	L	1	OSP NA
G3322	520U	C1	L	1	CNC PROCESSOR 2
G3154	8108	C1	L	1	LORAN WPN 3/4 AT
G3154	2735	C1	L	1	MARDAN T/M 1
G8437	021T	C1	L	1	ESGM/NAVAIDS CON
G4619	0231	C1	L	1	NTM REPL

COURSE SAMPLE LISTING

START DTC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
63322	4236	C1	L	1	DKFT CNC CONV
63322	4288	C1	L	1	DKFT SINS CONV
68437	042M	C1	L	1	SINS 2-7 CALIB
63322	4234	C1	L	1	DKFT AIDS CONV 1
68437	042D	C1	L	1	DGN-3J MAINT
68437	0488	C1	L	1	DRN/SONAR CONV
68437	042W	C1	L	1	PROCESSOR 1
68437	042Y	C1	L	1	I/O CONTROLLER
68437	043A	C1	L	1	MTU MAINTENANCE
68437	047Z	C1	L	1	NAV S/S LAB
00750	8815	C1	L	1	SINS 3-6 CMD MA
0580A	4726	C1	L	1	LHA CCTV DIFF
0580A	8730	C1	L	1	ICC CCTV MAINT
0581A	3609	C1	L	2	COMSYS TECH
00750	5038	C1	L	2	SND ANAL VIB RED
00750	540P	C1	L	2	BRD 7/WY/BRGDACP
63322	8870	C1	L	2	WLR 1G CMD MA
63154	5054	C1	L	2	WLR 6 CMD MA
63154	4533	C1	L	2	ESM TECH G37 CL
63154	4535	C1	L	2	ESM TECH G83 CL
00750	027Y	C1	L	2	WLQ4(NSUTT)CMDMA
31945	4615	C1	L	2	DGIATP
35412	406X	C1	L	2	DCS SATCOM OPR
64165	8743	C1	L	4	DMSP OPERATOR
62640	103G	C1	L	4	EOD REFR NAVY
63018	523C	C1	L	4	BUDG TNG
64118	419W	C1	L	4	SFGC PHASE 2 MLD
64118	4200	C1	L	4	SFGC PHASE 2 DML
5549C	2110	C1	L	4	DIVER SECOND
00750	2023	C1	L	4	SCUBA DIVER
42445	2802	C1	L	4	SATDIVER
0618A	4687	C1	L	4	MUSIC NAVRES
62640	2994	C1	L	4	DC REP PARTY LDR
0581A	3095	C1	L	5	PN-DCI
62750	3090	C1	L	5	COURT REPORTER
00204	4709	C1	P	5	ASSEMBLY PROGRAM
0581A	3151	C1	L	5	SK INDEF DUTY
61797	3538	C1	L	5	SUADPS 207
64167	4016	C1	L	5	ADV INFO SPEC
35412	47CT	C1	L	6	DIAL CEN TX TECH
61797	7301	C1	L	6	PLOTTER NC2MOD1A
63154	418U	C1	L	6	IC PACKAGE
61797	4815	C1	L	6	PLOTTER PT 512/S
0581A	4074	C1	L	6	IVCS(STC-1)MAINT
00750	2602	C1	L	6	CAMS MK1
63322	521K	C1	L	6	INT AN SYS CMD M
0580A	021D	C1	L	6	MK 6 DRC MAINT
63007	5746	C1	L	6	NWAM
63013	022F	C1	L	6	NWAWM
61797	403M	C1	L	6	BT MN PROP MNT

COURSE SAMPLE LISTING

START DTC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
61690	413C	C1	L	6	GENREG ABC MAINT
0581A	325J	C1	L	6	APS MAINT
61690	4315	C1	P	6	GR ABC CONS OPR
62603	4109	C1	L	6	HAG ABC CONS OPR
57063	4454	C1	B	6	HAG ABC CONS OPR
0581A	472T	C1	L	6	LHA CSC MAINT
61797	019E	C1	L	6	VALVE MAI
61797	031H	C1	L	6	AUX TURB MAINT
61797	030S	C1	L	6	AIR COMP MAINT
61797	047H	C1	L	6	FDB MAINT
61797	047M	C1	L	6	ME / LO PUR MAIN
0581A	R36R	C1	L	6	LHA ADV APS OPER
0580A	03FV	C1	L	6	SLSLC
0580A	3104	C1	L	6	DN/GM 567/645
00750	3211	C1	L	6	SSN/SSBN AUX PKG
31954	015K	C1	L	6	GL1G 02 GEN O/M
0580A	482C	C1	L	6	1182 PROP TECH
63154	8123	C1	L	6	7L1G O2GEN O/M
0580A	4G2Z	C1	L	6	SSTG SO1 MAINT
63154	812G	C1	L	6	38ND81/MDIFCMBMA
0580A	415N	C1	L	6	FFG-7 FSMM PH 1
0580A	415I	C1	L	6	FFG-7 CCS OPS
0613A	415T	C1	L	6	FFG HOT PLT MAIN
0580A	2976	C1	L	6	DDA 16V149 SSDGM
0580A	030X	C1	L	6	FFG-7 AUXELECSYS
62087	130F	C1	L	6	NPPO REACTOR
62085	1316	C1	L	6	NPPO MECHANICAL
62086	1324	C1	L	6	NPPO LAB
61797	4893	C1	L	6	EL MOTOR REWIND
61797	015W	C1	L	6	ELECT CONT DEV
0580A	3513	C1	L	6	GYRO TECH ELEC
00750	5441	C1	L	6	GYRO MK19 CMB MA
0580A	R64R	C1	L	6	TYPE 18 PERI REP
66737	530G	C1	L	6	DSRV OPERATOR
0580A	033R	C1	L	6	FFG 7 DEG MAINT
00181	337L	C1	L	7	BASIC WELDING
00181	337M	C1	L	7	NNC WELDING
0581A	320H	C1	L	7	NDT UTSTLDR INSP
0581A	351G	C1	L	7	PRCSION GRND/BAL
63362	515A	C1	L	7	MACH TOOL OP
58068	3500	C1	L	7	LA CONST INSP
0581A	3101	C1	L	7	AIR COND REFRIG
0581A	4975	C1	L	7	CEN ACR OP MAINT
62071	4068	C1	L	7	CE-CABLE SPLICE
0612A	021M	C1	L	7	CO/BLAST/RECERT
61797	343I	C1	L	8	MS MANAGEMENT
0581A	4212	C1	L	8	SHIP'S STORE MGT
59004	0190	C1	L	8	PS
61797	343J	C1	L	8	LAUNDRY/DC SUPRV
0581A	7620	C1	L	8	BARBER SHPBD

COURSE SAMPLE LISTING

START UIC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
G3115	2536	C1	L	1	MIN COMPON REP
G3115	2574	C1	L	1	MIN COMPON REP
G3115	4736	C1	L	1	MIN COMPON REP
G3115	4140	C1	L	1	MOD RPR INST TRA
G3115	414H	C1	L	1	MOD RPR INST TRA
G3115	4198	C1	L	1	AN/APS-115 SEA
G3115	300P	C1	L	1	ARR69 RADIO RECV
G3115	7623	C1	L	1	ARC-131 REC TRAN
G3115	301C	C1	L	1	ARA50 UHF/ADF IN
G3115	7776	C1	L	1	AN/ARC-52 RADIO
G3115	4196	C1	L	1	RT648/G98 TRANSC
G3115	7506	C1	L	1	APN-154 RDR BCAS
G3115	7614	C1	L	1	APN-130 RDR NAV
G3115	4158	C1	L	1	APN141 RDR ALT
G3115	4170	C1	L	1	ARN52 TACAN
G3115	7639	C1	L	1	ARN52 TACAN
G3115	4816	C1	L	1	APN-171 RDR ALT
G3115	350X	C1	L	1	ASN41 NAV COMP
G3115	4161	C1	L	1	APN-153/V/NAV
G3115	7961	C1	L	1	APN-171/V/ ALT
G3115	5970	C1	L	1	ASQ-10 MAG DETEC
G3115	4163	C1	L	1	AN/APX-76A IFF
G3115	7930	C1	L	1	AN/APX-76A IFF
G3115	4164	C1	L	1	APX-72 RADAR
G3115	7616	C1	L	1	APX-72 RADAR
G3115	7975	C1	L	1	AN/ALQ76 INT MAI
G3115	3552	C1	L	1	ALQ100 CNTMRS
G3115	3023	C1	L	1	ARA63 RECV-DEC
G3115	4785	C1	L	1	KY-538B/538B IFF
G3115	350X	C1	L	1	RT542/A RT INT
G3115	4175	C1	L	1	INE NAV SYS INT
G3115	414A	C1	L	1	AN/ALQ- INTER
G3115	342A	C1	L	1	ANARN84 VOR REC
G3115	402Y	C1	L	1	ANARN84 TAC REC
G3115	309R	C1	L	1	ALR45 CNTMEA REC
G3115	310D	C1	L	1	ASQ PULSE DECOD
G3115	321B	C1	L	1	ALR50 RDR INT
G3115	035X	C1	L	1	INERTIAL PLAT IN
G3115	027V	C1	L	1	ANARC114 RDO SET
G3115	2835	C1	L	1	ASQ81/V MAG ANOL
G3115	4300	C1	L	1	ANAQM18/ANAQM20
G3115	3740	C1	L	1	AN/AYK2 NAV COMP
G3115	413Y	C1	L	1	AN/AKT-22V TELEM
G3115	4172	C1	L	1	ASA27A COMPT INT
G3115	344A	C1	L	1	E2C DET/DIS SYS
G3115	4122	C1	L	1	APA125A IND INT
G3115	4124	C1	L	1	APX7 RAD REC SYS
G3115	400F	C1	L	1	ASA1C SYS MAI/I
G3115	302X	C1	L	1	ASA50 INT MAI
G3115	400P	C1	L	1	P3AB WEP SYS ORG

COURSE CATALOG LISTING

START UIC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
C3115	4210	C1	L	1	AQA-7/V/ 4/5 INT
C3115	400R	C1	L	1	P3C AV SYS TECH
C3115	400T	C1	L	1	ARC161 HF INT
C3115	400V	C1	L	1	P3C COMM/NAV
C3115	4002	C1	L	1	ASH20V FLT REC
C3115	4244	C1	L	1	P3C UPDATE 1 ORG
C3115	344K	C1	L	1	SBA APS116 RDR
C3115	408K	C1	L	1	IP-1214/AA INTER
C3115	3825	C1	L	1	AQADCE/KACD E/W
C3115	304N	C1	L	1	A7E COMM NAV ID
C3115	7410	C1	L	1	APN190 DOP RDR
C3115	7914	C1	L	1	A7AB ATT HEADING
C3115	4791	C1	L	1	APQ-126 RDR SET
C3115	48G2	C1	L	1	A7C/E WEP SYS SP
C3115	7994	C1	L	1	F4J CNI/ECM ORG
C3115	4G2G	C1	L	1	RF4B ASQ-88 CNI
C3115	4930	C1	L	1	F14A ELECTON SYS
C3115	350B	C1	L	1	AGE WEP SYS TECH
C3115	4820	C1	L	1	ALQ99/ALM109C
C3115	303Y	C1	L	1	ALM117 DIG TEST
C3115	344N	C1	L	1	USH17 RECORDER
C3115	414M	C1	L	1	EA-6B I CAP COMM
C3115	8427	C1	L	1	AN/ALM-117 DIGIT
C3115	8431	C1	L	1	CV2435 AYAG CONV
C3093	4115	C1	L	1	SPN-35A
C3093	4080	C1	L	1	TPN 36
C3093	469K	C1	L	1	SPN 44
C3093	4075	C1	L	1	MATC COMM REP
C3093	459G	C1	L	1	TPX 42 CATCCDAIR
C3093	022X	C1	L	1	TPN-63 PAR
C3115	8445	C1	L	1	AN/APS-125 RADAR
C3115	300H	C1	L	1	APM225 MOD ANA
C3115	350C	C1	L	1	APM375 MINI-SACE
C3115	472D	C1	L	1	ASM401 MINI-SACE
C3115	46GP	C1	L	1	APQ116 RDR SET
C3115	7911	C1	L	1	APQ120 RDR INT
C3115	4370	C1	L	1	AWG10A MCS INT
C3115	416T	C1	L	1	AN/AWG-10A IN MT
C3115	415V	C1	L	1	F-4J AN/AWG-10A
C3115	8349	C1	L	1	ANAWG10A MISSLE
C3115	888G	C1	L	1	AN/AWG-10A CONTL
C3115	7503	C1	L	1	F4 MISSILE CONT
C3115	340B	C1	L	1	ANAWM23 AWG9
C3115	338D	C1	L	1	AWM23 CONT DISP
C3115	339P	C1	L	1	AWM23 COMP TEST
C3115	3755	C1	L	1	SH-3 AN/AQS-13
C3115	305N	C1	L	1	ASM175 TEST CON
C3115	4189	C1	L	1	E2B/C INFLT MON
C3115	4187	C1	L	1	E2B DATA/PRO ORG
C3115	5828	C1	L	1	AN/ASQ-155 CMPTR

COURSE NAMES AND CODES

START DTC	COF	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
63115	487G	C1	L	1	AN/AJM-32/V/
63115	2595	C1	L	1	UGM247 OPERATOR
63115	400X	C1	L	1	UGM247 UNLINE MA
63115	4547	C1	L	1	ANUGM247/V/ OPER
63115	0CCM	C1	L	1	ANUGM247 ANALYST
63115	4111	C1	L	1	UGM403 MATS/OPNS
63115	58F4	C1	L	1	AVA 1 VT DIS/IY/
63115	4G32	C1	L	1	AWM-5 INT MAINT
63115	7537	C1	L	1	RF4 CAMERA INT
63098	3584	C1	P	4	MOPIC
63096	401L	C1	P	4	PHOTO LAB TECH
63115	4G4F	C1	L	5	GSE MAT MANAGER
32730	333U	C1	L	5	MARMAK C1
63093	3G11	C1	L	5	DAC C1
63115	3703	C1	L	6	CH4GE ELEC SYS
63115	7541	C1	L	6	RF4 AC MECH MAI
63115	031M	C1	L	6	J-79-GE-8/10
63115	7403	C1	L	6	TS8 ENGS INT/CLR
63115	7F06	C1	L	6	TF30P8/408 INT
63115	4G37	C1	L	6	T400 CP 400 ENG
63115	4C95	C1	L	6	TS8GE16 INTERMED
63115	31CW	C1	L	6	CH4G HELO MECH
63115	2G0W	C1	L	6	CH53A/D P/P ORG
63115	2416	C1	L	6	P3 TSCA10/14 ORG
63115	1C08	C1	L	6	WRC7 APU INTER
63115	3F2C	C1	L	6	AGA/E/KAGD P/P
63115	7408	C1	L	6	A/E POWER PLANTS
63115	7414	C1	L	6	F8 P/P SYS ORG
63115	31 IN	C1	L	6	AV8A T40C ENGINE
63115	1330	C1	L	6	TF30P414 ENG CER
63094	7706	C1	P	6	NP/III/
63115	4708	C1	L	6	ASN54/V/ PWR INT
63115	4231	C1	L	6	ASN31/30/92 INER
63115	0477	C1	L	6	AJB3A EM/REL INT
63115	07JV	C1	L	6	GE CS61 INT MAI
63115	3702	C1	L	6	GE J AE/HYD SY
63115	0209	C1	L	6	SE3 AUTO STAB EQ
63115	3777	C1	L	6	E-2B AFC ORG MAI
63115	3701	C1	L	6	E-2B PTR/REL SYS
63115	400A	C1	L	6	CCA HYD/AE ORG
63115	5B3J	C1	L	6	P3 PUCON A/PILOT
63115	7040	C1	L	6	P3 INTEG ELEC
63115	84F3	C1	L	6	SCL/G ELEC SYS
63115	7096	C1	L	6	A4 AJB3/3A ORG
63115	84IN	C1	L	6	A4 ELEC/INST ORG
63115	85F5	C1	L	6	AG A/E AND HYDS
63115	74F2	C1	L	6	AG ELEC SYS ORG
63115	3738	C1	L	6	ASWEG/40 AFC INT
63115	4321	C1	L	6	A/E PLR ENVIR
63115	4072	C1	L	6	A/E HYD/PNEU SYS

COURSE CONTROL LISTINGS

START DTG	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
83115	7446	C1	L	6	F4B/J A/F HYD
83115	7808	C1	L	6	F/RF4B/J ADC INT
83115	7689	C1	L	6	A6A32 AFCG INT
83115	7433	C1	L	6	F4 DATA LINK SYS
83115	3897	C1	L	6	F4 ELEC SYS.ORG
83115	7493	C1	L	6	AJB7/ASN70
83115	5887	C1	L	6	RF8G ELEC ORG
83115	3234	C1	L	6	T2 HYD FLIGHT CT
83115	2394	C1	L	6	T2B/C E/I SYS
83115	4444	C1	L	6	F14A ADV ELEC
83115	4445	C1	L	6	F14A AF HYD SYS
35970	4976	C1	L	6	NDITECHNICIAN
83115	4711	C1	L	6	F3 AIR COND/PRES
83094	3802	C1	L	6	ALRE C13
83115	023W	C1	L	6	20MM POINT SYS
83115	7700	C1	L	6	A-4 ARMAMENT
83115	7444	C1	L	6	F4 ARM/WPN CONT
83096	3580	C1	P	6	PHER
83115	8849	C1	L	9	F3 ASN123 INTERM
83115	8590	C1	L	9	A18 MAINT TRNG
42149	011R	C1	L	0	5"54 MK45 OP&M
42087	8903	C1	L	1	ASCOMM MAINT TEC
42087	5984	C1	L	1	RSPE
61090	4531	C1	L	1	IWS MAINTENANCE
42087	012H	C1	L	1	FTG7COMSYS TT II
62603	5380	C1	P	2	INTER MORSE CODE
63401	808K	C1	L	2	SONAR RNG PRED
42087	402W	C1	L	2	ASAC BASIC
42087	4476	C1	L	2	ASAC NTDS
42087	4612	C1	L	5	ASWMOD DATA PROC
42087	1124	C1	L	5	NTDS OPER PROG
62603	3119	C1	L	6	MSWELP ELECT
62603	3109	C1	L	6	LN PACKARD DIES
61797	8099	C1	L	7	MARCORPCRYOOPER
61090	8061	C1	L	1	RDR SPG 53A MAI
62676	348Y	C1		1	FIELD CALIBRATN
42087	2027	C1	L	2	AIC SUPERVISOR
42087	5309	C1	L	2	NAVWAR OP SPLC/C
42082	2020	C1	L	2	CIC WATCH SUPER
42087	8069	C1	L	2	NTDS INPUT CORL
42082	010R	C1	L	2	CG NTDS INPUT
42082	013M	C1	L	2	LAMPS III MSNCON
61090	010K	C1	L	6	FUET
61090	4703	C1	L	6	GYRO MK 27
63111	034R	C1	L	0	SNEP RAMADAN
06120A	2410	C1	L	6	CM SCOT COURSES
42085	5411	C1	L	6	SEA CADET TRNG
35970	0223	C1	L	8	DRILLS/TRNG
42085	2009	C1	L	9	NAVRES/DRILLS WD
08741	037	C2	L	12	SUAC

COURSE SAMPLE LISTING

STAFF UIC	CDP	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
42087	032K	C2	L	12	FFG-7 WEPS OFF
G3154	0177	C2	L	12	SWSPOLARISWEPOFF
G4619	0373	C2	L	12	TARTAR OFF ADV
G4619	4198	C2	L	12	SWS COM C4 WEPS
G4619	419F	C2	L	12	SWS WEPS OFF C4
30029	034W	C2	L	12	AEGIS C/S OFF
G4619	4285	C2	L	12	SWS NAV OFF CONV
G3415	0345	C2	L	13	IMAGERY INTERP
0760A	020G	C2	L	14	CB OPS SPE/FINIS
G2661	0194	C2	L	14	COMM OFF FLT
G2085	130R	C2	L	14	NPPO-OFFICER
0580A	8415	C2	L	14	TOOW CERT
G3190	020X	C2	L	14	FFG7 ENG OFF
G3190	8492	C2	L	14	SWO DH CMBT SYS
0610A	0217	C2	L	14	HEO2 CROSS TRA
G4165	8742	C2	L	15	DMSP INT/ANAL
G3018	209L	C2	L	15	CB CIVACT TM OOT
G4165	9623	C2	L	17	DISASTERPREP OFF
G2741	413R	C2	L	18	UADPS-SP
G3236	0163	C2	L	18	TRANS MGMT
G3094	4404	C2	L	12	ADOI WEST
G3221	4413	C2	L	17	CINEMATOGRAPHY
42087	1224	C2	L	12	NTDS DATA UTIL
42087	9281	C2	L	12	STAFF EWO
42087	9579	C2	L	12	CIC OFFICER INT
42852	9585	C2	L	12	RES CICWO INTERM
42087	271H	C2	P	12	NON-NATO CIC WO
G3013	9364	C2	L	12	NU WPN EMP PLANN
G2603	0151	C2	L	14	M/S ENG OFF
42851	9363	C2	L	12	JR FORTIGNOFF ASW
42852	9382	C2	L	12	TAO
42852	010G	C2	L	12	NTDS USER CORE
42087	808R	C2	L	12	CV-NTDS UTIL
G3013	011U	C2	L	12	CTTC
G3013	537E	C2	L	11	NWPN SPEC BRIEF
30920	3484	C3	L	1	CTM GSQ 7G MAT
39157	3652	C3	L	1	STRAWHAT MAINT
30921	4321	C3	L	1	CTM STREAMLINER
30921	401H	C3	L	1	SPEC PRINTER II
30921	8787	C3	L	1	AN/UYA-7 MAINT
32695	2056	C3	L	2	CTT INT ELINT
G3082	031C	C3	L	2	CCSDC PH II
32695	4482	C3	L	2	CTI INT HEBREW
00849	213G	C3	L	5	CTR GYK/UYK3 PRO
G3018	3596	C5	L	4	SPEC OPER TECH
G5931	3G70	C7	P	1	TORP MK 46 TEQ
32695	4402	C7	L	2	CT SR MIL SUPVR
00702	028B	C7	L	2	CW ADVANCED OPR
42145	273K	C7	L	5	JM SYS COORD
G5971	460A	C7	L	6	CM-J

COURSE CAMPUS LISTING

STAFF UIC	CDR	COURSE TYPE	MODE	SKILL CODE	SHORT TITLE
65971	541X	C7	L	7	BU-J
65971	46GX	C7	L	7	ED-J
63093	4511	C7	L	1	TD C7
63093	4515	C7	L	6	AME C7
63111	024C	C7	L	1	HARPOON FAM OFT
63111	024G	C7	L	1	RSNF MK XII AIMS
63111	024L	C7	L	1	RSNF OMEGA OPS
63111	024Q	C7	L	1	RSNF WSN 2 MA II
63111	024U	C7	L	1	RSNF MK19 LEV II
63111	024Y	C7	L	1	MK309 FCS LEV I
63111	025C	C7	L	1	UGN 4 SSS LEV II
63111	025G	C7	L	1	RSNF WQC2A MA II
63111	025L	C7	L	1	RSNF MK75 LEV II
63111	025Q	C7	L	1	RSNF SPS55 MA II
63111	025U	C7	L	1	RSNF START (MOD)
63111	4268	C7	L	1	AN/SLQ32 FAM/OPS
63111	4264	C7	L	1	RSNF CAS LEV II
63111	4272	C7	L	1	RSNF MK92 LEV II
63111	4276	C7	L	1	CIWS MAINT LEV I
63111	8617	C7	L	6	RSNF PET INDOC
63111	8621	C7	L	6	RSNF CNTL PROP
63111	8625	C7	L	6	RSNF MTU DIESEL
63111	8629	C7	L	6	RSNF CNTL SYS O

APPENDIX C

FOUR EXAMPLES OF QUESTIONNAIRE RESPONSES FOR COURSES EXAMINED[4]

[4]A summary of questionnaire responses for each course examined in the study is available from TAEG upon request.

RECORD NUMBER --> 005
CDP --> 5440
TYPE OF INSTRUCTION --> L
TYPE OF COURSE --> C1
SKILL CODE --> 101

	THEORY		LAB		
	SELF-PACED	GROUP	SELF-PACED	GROUP	TOTAL
1	0000	0327	0000	0713	1040
2	0000	0070	0000	0100	0170
3	0000	0000	0000	0000	0000
4	0000	0000	0000	0000	0000
5	0000	0000	0000	0000	0000
6	0000	0070	0000	0100	0170
7	0000	0000	0000	0000	0000
8	0000	0050	0000	0663	0713

RECORD NUMBER --> 006
CDP --> 6262
TYPE OF INSTRUCTION --> B
TYPE OF COURSE --> AP
SKILL CODE --> 651

	THEORY		LAB		
	SELF-PACED	GROUP	SELF-PACED	GROUP	TOTAL
1	0113	0000	0011	0006	0130
2	0113	0000	0011	0006	0130
3	0113	0000	0011	0006	0130
4	0006	0000	0001	0000	0007
5	0059	0000	0000	0000	0059
6	0113	0000	0011	0000	0124
7	0113	0000	0011	0006	0130
8	0000	0000	0011	0006	0017

RECORD NUMBER --> 007
CDP --> 6213
TYPE OF INSTRUCTION --> C
TYPE OF COURSE --> AP
SKILL CODE --> 000

	THEORY		LAB		
	SELF-PACED	GROUP	SELF-PACED	GROUP	TOTAL
1	0049	0000	0005	0001	0055
2	0000	0000	0005	0001	0006
3	0049	0000	0000	0000	0049
4	0000	0000	0000	0000	0000
5	0049	0000	0000	0000	0049
6	0000	0000	0000	0000	0000
7	0049	0000	0005	0000	0054
8	0004	0000	0005	0000	0009

RECORD NUMBER --> 008
CDP --> 6221
TYPE OF INSTRUCTION --> B
TYPE OF COURSE --> AP
SKILL CODE --> 000

	THEORY		LAB		
	SELF-PACED	GROUP	SELF-PACED	GROUP	TOTAL
1	0000	0049	0000	0005	0054
2	0000	0004	0000	0005	0009
3	0000	0000	0000	0000	0000
4	0000	0000	0000	0000	0000
5	0049	0000	0000	0000	0049
6	0000	0000	0000	0000	0000
7	0049	0000	0005	0000	0054
8	0004	0000	0005	0000	0009

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